

Curriculum Vitae

Ibrahim EL-Basyoni



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Name: Ibrahim Salah El Basyoni

Present position: Assistant Professor

Education:

- **August, 2012** Ph.D. In Plant Breeding and Genetics, Titled: **ASSOCIATION MAPPING FOR IMPORTANT BIOTIC & ABIOTIC RELATED TRAITS IN STRUCTURED WHEAT POPULATIONS**, University of Nebraska-Lincoln, USA.
- **2006** - M.Sc. In Wheat Breeding, Titled: **IN VITRO SELECTION FOR SALINITY STRESS TOLERANCE IN WHEAT**, University of Alexandria, Egypt.
- **2002** - B.Sc. Plant Breeding and Genetics, University of Alexandria, Egypt.

Certified Training:

- Preparing Research Project (18 Hrs), 2013.
- Training course on writing scientific research and international publication (18 Hrs), 2013.
- The use of Technology in Teaching (Teaching with Technology) (18 Hrs), 2013.
- The Credit Hours System (18 Hrs), 2009
- Preparing Research Project (18 Hrs), 2009
- Research Methods (18 Hrs), 2009
- Research Ethics (18 Hrs), 2009

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- Quality Standards in the Education Process (18 Hrs), 2008
- Effective Presentation Skills (18 Hrs), 2008

Awards and Honors

- **2012**Out-standing Graduate Research Assistant, Department of Agronomy and Horticulture, University of Nebraska-Lincoln
- **2011**Research Assistantship, department of Agronomy and Horticulture, University of Nebraska-Lincoln
- **2009** Scholarship, Egyptian Ministry of Higher education, Egypt.

Research Grants and Fund:

- 2016 research grant#14935 funded from STDF to evaluate world spring wheat collection for drought tolerance and stem rust resistance.
- IMHOTPE 2015-2016
- GRA Support for Breeding and Genetics of Food and Feed Grains (Provided by the Channing B. and Katherine W. Baker Fund). 2010 – 2012.

Employment History:

- **April, 2014 – until now:** Assistant professor, Damanhour university , Egypt
- **August, 2011–April, 2014:** Postdoctoral Research Associate, university of Nebraska-Lincoln.
- **Statistics consultant for both Nebraska and Colorado winter wheat breeding** programs in which I design and analysis field experiments and data.
- **August, 2012 –April, 2014:** Postdoctoral Research Associate, University of Nebraska-Lincoln.
- **2009-2012:**Research Assistant, department of Agronomy and Horticulture, University of Nebraska-Lincoln.
- **2006-2009:** Assistant Lecturer, University of Alexandria, Egypt
- **2002 -2006:** Research assistant, University of Alexandria, Egypt.

Work in Progress

- **El-Basyoni, I.** A. Lorenz, S. Baenziger.2017. Evaluating the efficiency of GBS vs. SNP marker platforms on the prediction accuracy of genomic selection in wheat.
- **El-Basyoni, I.;**A. Lorenz, P. S. Baenziger.2017. Genomic Selection for important Biotic and Abiotic traits using different training populations.
- **EL-Basyoni,I.;** M.N Barakat, M.M Saadalla, A.M Aggag .2017.Developing New Variant of Wheat Tolerant to Salinity Stress. Alex. J. Agric. Res.((In Press)
- **El-Basyoni, I.;** M.N Barakat, M.M Saadalla, A.M Aggag .2017. Using DNA Molecular Marker in Breeding for Salinity Stress in Wheat. Alex. J. Agric. Res (In Press)

Publications

- **El-basyoni, I.;** P.S. Baenziger, *et al.*2013. Comparison Between Genotyping-by-sequencing and Array-based Scoring of SNPs for Genomic Prediction Accuracy in Winter Wheat. Crop Science society of America conference.
https://scisoc.confex.com/crops/2013am/webprogram/Handout/Paper77451/Ibrahim_2013ASA.pdf.
- **El-basyoni, I.,** P.S. Baenziger, I. Dweikat, D. Wang, K. Eskridge, and M. Saadalla. 2013. Using DArT Markers to Monitor Genetic Diversity throughout Selection: A Case Study in Nebraska's Winter Wheat Breeding Nurseries. *Crop Sci.* 53(6): 2363 Available at <https://www.crops.org/publications/cs/abstracts/53/6/2363> (verified 5 March 2014).
- Lopes M.S, **El-basyoni, I.***et al.* 2015. Exploiting genetic diversity from landraces in wheat breeding for adaptation to climate change. *Journal of Experimental Botany.*Journal of Experimental Botany.
- Liu, Zaho; **El-basyoni, I.***et al.* 2015. Evaluation and association mapping of resistance to tan spot and Stagonospora nodorum blotch in adapted winter wheat germplasm. *Plant desisease.*

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- Wang, M; **El-basyoni, I**.et al.2014. Comparison of Fusarium head blight Resistance in Cytoplasmic Male Sterile, Maintainer and Restorer Lines in Winter Wheat. Cereal Research Communications
- El Siddig, M.A I. Dweikat, S. Baenziger, A. El Hussein and **El-Basyoni, I**.2013. Genetic Diversity Among Sudanese Wheat Cultivars as Revealed by Molecular Markers. Middle-East Journal of Scientific Research 14 (9): 1135-1142.
- Baenziger, P.S.,**El-Basyoni,I**; R.S. Little, D.K. Santra, T. Regassa, and M.Y. Wang. 2011. Structuring an Efficient Organic Wheat Breeding Program. Sustainability 3(12): 1190–1205 Available at <http://www.mdpi.com/2071-1050/3/8/1190> (verified 5 March 2014).
- Frels,K., Guttieri, M., **El-Basyoni,I**; E.Akhunov, and P. Baenziger (2014). Genomic Selection for Nitrogen Use Efficiency Using Canopy Spectral Reflectance in Hard Winter Wheat. In Plant and Animal Genome XXII Conference. Plant and Animal Genome. Retrieved from <https://pag.confex.com/pag/xxii/webprogram/Paper11985.html>
- Guttieri, M.,K. Frels, B.Waters, **El-Basyoni,I**; E.Akhunov, and P. Baenziger (2014). Genetic Variation for Grain Cadmium in Hard Winter Wheat. In Plant and Animal Genome XXII Conference. Plant and Animal Genome. Retrieved from <https://pag.confex.com/pag/xxii/webprogram/Paper10570.html>

Workshops, Conferences

- 2013 - Training Course: The fundamentals for the analysis of genetic data (inc. GBLUP) in ASReml 3. 3-5 October, Charleston, NC, USA.
- 2013 - Write Winning Grant proposals, workshop, March 15, 2013
- 2012-Crop Science society of America (CSSA) international annual meeting, Oct.21-24, 2012- Cincinnati,Ohio, USA.
- 2012 - UNL Plant Science Retreat Oct.19-20, Lincoln,NE
- 2012 - useR! - International R Users Conference, 12-15 June, Nashville, TN, USA.
- 2012 - 6thAnnual Plant Breeding Coordinating Committee Meeting, August 6-8, Indianapolis, IN,USA.
- 2012 - 2ndAnnual National Association of Plant Breeders, August 6-8, Indianapolis, IN.
- 2011 -5thNational Association of Plant Breeders (NAPB) Annual Meeting, at Texas A&M University.
- 2010-4thAnnual Plant Breeding Coordinating Committee Meeting, Iowa.
- 2008 - Workshop on (7th Workshop on Ubiquitous Computing and Intelligence Information:Challenges and Solutions), Alexandria, Egypt.

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- 2008 -The 1st General Assembly Meeting of the North Africa and Middle East Science centers network (NAMES), Alexandria, Egypt.
- 2007- Workshop on Protein Analysis, Medical Technology Center for research Service, Medical Research Institute, and Alexandria University, Egypt.

Memberships

- Active member of the Crop science society of America.
- Active member of the national association of plant breeders (NABP)
- Active member of the Honor society of agriculture Gamma Sigma Delta.

Teaching Assistant

- Crops Production and Cereals Technology.
- Plant Breeding.
- Field Crops Physiology.
- Tissue Culture
- Statistics and Experimental Design.
- Breeding field crops for Diseases Resistance.
- The Role of Gene Technology in Plant Breeding.

Laboratory and Field Skills:

- Deriving and maintaining wheat combines
- Determine the Canopy Temperature using Infrared Thermometer.
- Determine Plant cell Membrane stability.
- Digestion of vegetative tissues for chemical analysis.
- Colorimetric measurement by spectrophotometer of mineral elements (N, P).
- Flame emission of mineral elements (Ca, Mg, N).
- Atomic Absorption of mineral elements (Fe, Mn, Zn, Cu).

Computer Skills:

International Computer Driving License (ICDL)

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Statistical analysis programs:

1. **R and SAS** are my main tools to conduct statistical analysis. However in the last two years I moved most of my work to R environment in which I have established several functions.
2. **M-stat, Spss, micro-stat.**
3. **Graphic programs:** Photoshop, CurveExpert 1.3 and Origin 6.1.

Language skills:

- English: Fluent, written and spoken.
- French: Medium, written and spoken.
- Arabic: fluent, written and spoken (native tongue).

A list of three references:

- 1- P. Stephen Baenziger pbaenziger1@unl.edu
- 2- Ismail Dweikat idweikat@unlnotes.unl.edu

Current Research Interests:

My current research focuses on the development and application of statistical and bioinformatics approaches for the analyses of genetics, genomics, and phenomics data for advancing contemporary plant breeding.